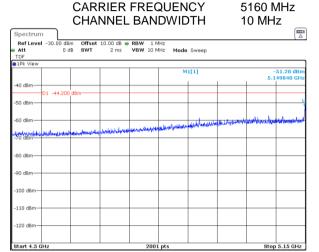
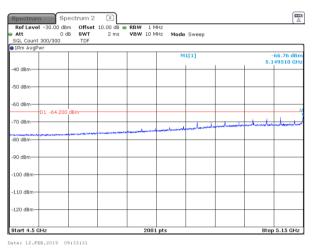


Test specification: FCC section 15.407(b), RSS-247 section 6.2.1.2, Conducted out of band emissions Test procedure: KDB 662911; KDB 789033, ANSI C63.10, section 12.7.6 & 12.7.7 Test mode: Compliance **PASS** Verdict: Date(s): 10-Feb-19 Temperature: 25 °C Air Pressure: 1019 hPa Power: 48 VDC Relative Humidity: 48 % Remarks:

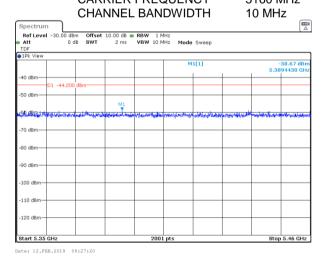
Plot 7.12.2 Conducted spurious emission measurements in the range $4.5 - 5.15 \; \text{GHz}$

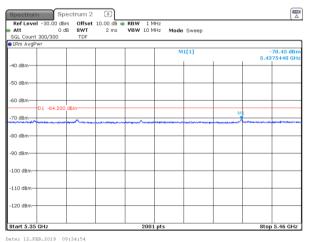




^{*}Applied Limit = Specification limit – Antenna Gain – Antenna Array gain

Plot 7.12.3 Conducted spurious emission measurements in the range 5.35 – 5.46 GHz CARRIER FREQUENCY 5160 MHz



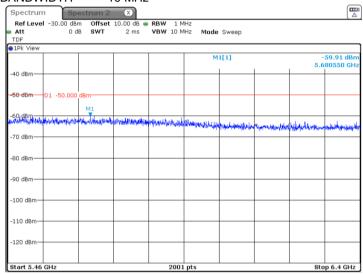




Test specification:	FCC section 15.407(b), RSS-247 section 6.2.1.2, Conducted out of band emissions		
Test procedure:	KDB 662911; KDB 789033, ANSI C63.10, section 12.7.6 & 12.7.7		
Test mode:	Compliance	Verdict:	PASS
Date(s):	10-Feb-19	verdict.	PASS
Temperature: 25 °C	Relative Humidity: 48 %	Air Pressure: 1019 hPa	Power: 48 VDC
Remarks:			

Plot 7.12.4 Conducted spurious emission measurements in the range 5.46 - 6.4 GHz

CARRIER FREQUENCY 5160 MHz CHANNEL BANDWIDTH 10 MHz



Date: 12.FEB.2019 09:50:46



Test specification: FCC section 15.407(b), RSS-247 section 6.2.1.2, Conducted out of band emissions

Test procedure: KDB 662911; KDB 789033, ANSI C63.10, section 12.7.6 & 12.7.7

Test mode: Compliance Verdict: PASS

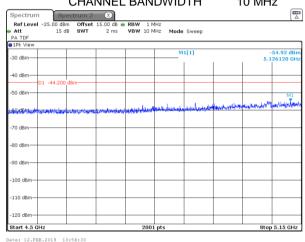
Date(s): 10-Feb-19

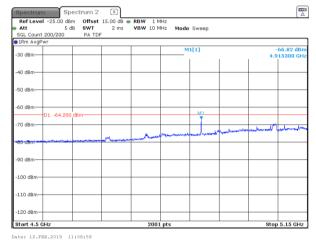
Temperature: 25 °C Relative Humidity: 48 % Air Pressure: 1019 hPa Power: 48 VDC

Remarks:

Plot 7.12.5 Conducted spurious emission measurements in the range 4.5 - 5.15 GHz

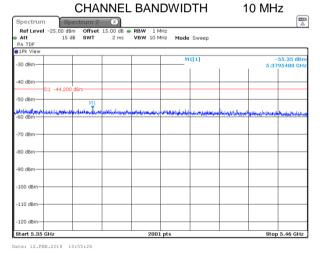
CARRIER FREQUENCY CHANNEL BANDWIDTH 5200 MHz 10 MHz

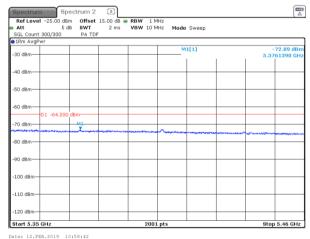




Plot 7.12.6 Conducted spurious emission measurements in the range 5.35 – 5.46 GHz

CARRIER FREQUENCY 5200 MHz



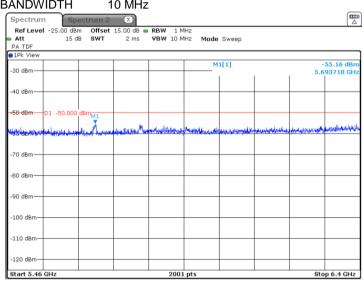




Test specification:	FCC section 15.407(b), RSS-247 section 6.2.1.2, Conducted out of band emissions		
Test procedure:	KDB 662911; KDB 789033, ANSI C63.10, section 12.7.6 & 12.7.7		
Test mode:	Compliance	Vandiat.	PASS
Date(s):	10-Feb-19	- Verdict: PASS	
Temperature: 25 °C	Relative Humidity: 48 %	Air Pressure: 1019 hPa	Power: 48 VDC
Remarks:			

Plot 7.12.7 Conducted spurious emission measurements in the range $5.46-6.4~\mathrm{GHz}$

CARRIER FREQUENCY 5200 MHz
CHANNEL BANDWIDTH 10 MHz



Date: 12.FEB.2019 10:54:25



Test specification: FCC section 15.407(b), RSS-247 section 6.2.1.2, Conducted out of band emissions

Test procedure: KDB 662911; KDB 789033, ANSI C63.10, section 12.7.6 & 12.7.7

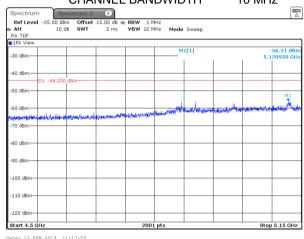
Test mode: Compliance Verdict: PASS

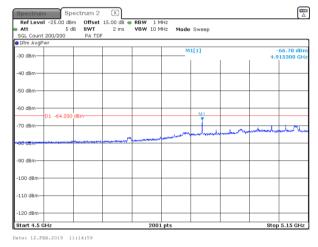
Temperature: 25 °C Relative Humidity: 48 % Air Pressure: 1019 hPa Power: 48 VDC

Remarks:

Plot 7.12.8 Conducted spurious emission measurements in the range 4.5 - 5.15 GHz

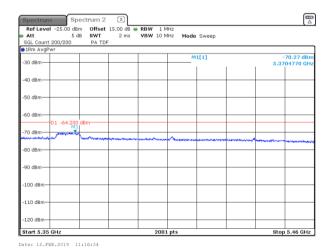
CARRIER FREQUENCY CHANNEL BANDWIDTH 5245 MHz 10 MHz





Plot 7.12.9 Conducted spurious emission measurements in the range 5.35 – 5.46 GHz

CARRIER FREQUENCY 5245 MHz

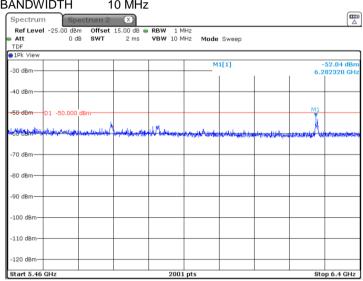




Test specification:	FCC section 15.407(b), RSS-247 section 6.2.1.2, Conducted out of band emissions		
Test procedure:	KDB 662911; KDB 789033, ANSI C63.10, section 12.7.6 & 12.7.7		
Test mode:	Compliance	Vandiat.	PASS
Date(s):	10-Feb-19	- Verdict: PASS	
Temperature: 25 °C	Relative Humidity: 48 %	Air Pressure: 1019 hPa	Power: 48 VDC
Remarks:			

Plot 7.12.10 Conducted spurious emission measurements in the range 5.46 – 6.4 GHz

CARRIER FREQUENCY 5245 MHz
CHANNEL BANDWIDTH 10 MHz



Date: 12.FEB.2019 11:20:33



Test specification: FCC section 15.407(b), RSS-247 section 6.2.1.2, Conducted out of band emissions

Test procedure: KDB 662911; KDB 789033, ANSI C63.10, section 12.7.6 & 12.7.7

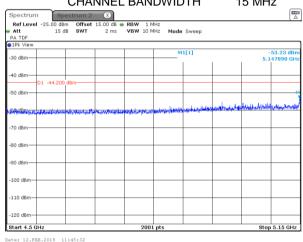
Test mode: Compliance Verdict: PASS

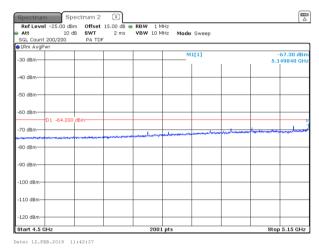
Temperature: 25 °C Relative Humidity: 48 % Air Pressure: 1019 hPa Power: 48 VDC

Remarks:

Plot 7.12.11 Conducted spurious emission measurements in the range 4.5 – 5.15 GHz

CARRIER FREQUENCY CHANNEL BANDWIDTH 5165 MHz 15 MHz

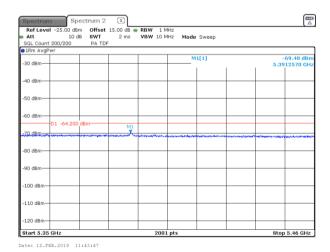




Plot 7.12.12 Conducted spurious emission measurements in the range 5.35 – 5.46 GHz

CARRIER FREQUENCY 5165 MHz

Date: 12.FEB.2019 11:46:54

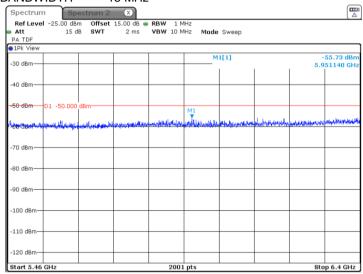




Test specification:	FCC section 15.407(b), RSS-247 section 6.2.1.2, Conducted out of band emissions		
Test procedure:	KDB 662911; KDB 789033, ANSI C63.10, section 12.7.6 & 12.7.7		
Test mode:	Compliance	Vandiat.	PASS
Date(s):	10-Feb-19	- Verdict: PASS	
Temperature: 25 °C	Relative Humidity: 48 %	Air Pressure: 1019 hPa	Power: 48 VDC
Remarks:			

Plot 7.12.13 Conducted spurious emission measurements in the range 5.46 – 6.4 GHz

CARRIER FREQUENCY 5165 MHz
CHANNEL BANDWIDTH 15 MHz



Date: 12.FEB.2019 11:48:06



Test specification: FCC section 15.407(b), RSS-247 section 6.2.1.2, Conducted out of band emissions

Test procedure: KDB 662911; KDB 789033, ANSI C63.10, section 12.7.6 & 12.7.7

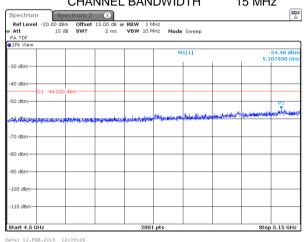
Test mode: Compliance Verdict: PASS

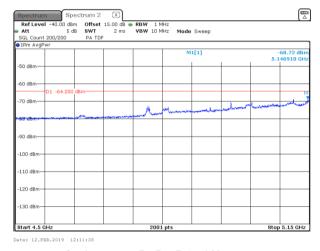
Temperature: 25 °C Relative Humidity: 48 % Air Pressure: 1019 hPa Power: 48 VDC

Remarks:

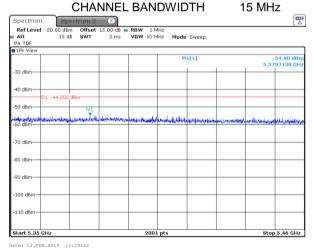
Plot 7.12.14 Conducted spurious emission measurements in the range 4.5 – 5.15 GHz

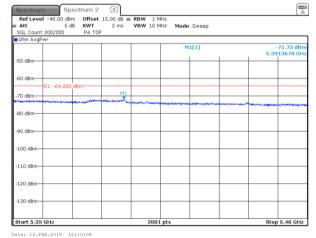
CARRIER FREQUENCY CHANNEL BANDWIDTH 5200 MHz 15 MHz





Plot 7.12.15 Conducted spurious emission measurements in the range 5.35 – 5.46 GHz
CARRIER FREQUENCY 5200 MHz



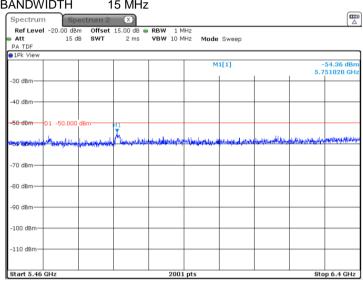




Test specification:	FCC section 15.407(b), RSS-247 section 6.2.1.2, Conducted out of band emissions		
Test procedure:	KDB 662911; KDB 789033, ANSI C63.10, section 12.7.6 & 12.7.7		
Test mode:	Compliance	Vardiet.	PASS
Date(s):	10-Feb-19	Verdict:	PASS
Temperature: 25 °C	Relative Humidity: 48 %	Air Pressure: 1019 hPa	Power: 48 VDC
Remarks:			

Plot 7.12.16 Conducted spurious emission measurements in the range 5.46 – 6.4 GHz

CARRIER FREQUENCY 5200 MHz CHANNEL BANDWIDTH 15 MHz



Date: 12.FEB.2019 12:07:16



Test specification: FCC section 15.407(b), RSS-247 section 6.2.1.2, Conducted out of band emissions

Test procedure: KDB 662911; KDB 789033, ANSI C63.10, section 12.7.6 & 12.7.7

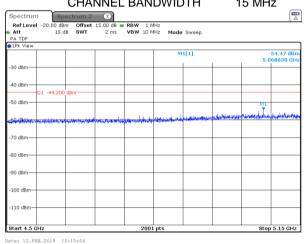
Test mode: Compliance Verdict: PASS

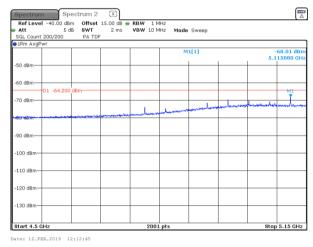
Temperature: 25 °C Relative Humidity: 48 % Air Pressure: 1019 hPa Power: 48 VDC

Remarks:

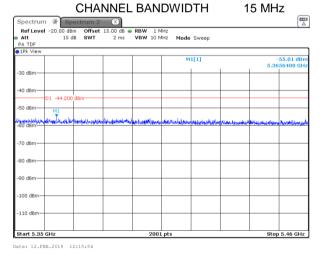
Plot 7.12.17 Conducted spurious emission measurements in the range 4.5 – 5.15 GHz

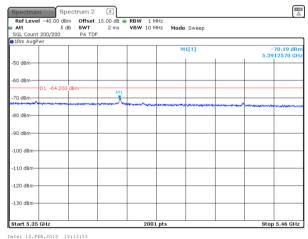
CARRIER FREQUENCY CHANNEL BANDWIDTH 5240 MHz 15 MHz





Plot 7.12.18 Conducted spurious emission measurements in the range 5.35 – 5.46 GHz
CARRIER FREQUENCY 5240 MHz



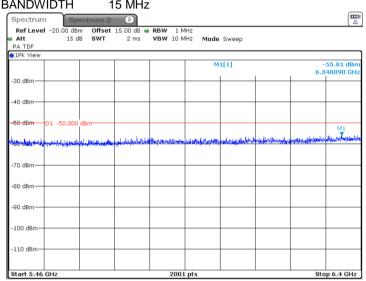




Test specification:	FCC section 15.407(b), RSS-247 section 6.2.1.2, Conducted out of band emissions		
Test procedure:	KDB 662911; KDB 789033, ANSI C63.10, section 12.7.6 & 12.7.7		
Test mode:	Compliance	Vandiat.	PASS
Date(s):	10-Feb-19	- Verdict: PASS	
Temperature: 25 °C	Relative Humidity: 48 %	Air Pressure: 1019 hPa	Power: 48 VDC
Remarks:			

Plot 7.12.19 Conducted spurious emission measurements in the range 5.46 – 6.4 GHz

CARRIER FREQUENCY 5240 MHz CHANNEL BANDWIDTH 15 MHz



Date: 12.FEB.2019 12:17:15





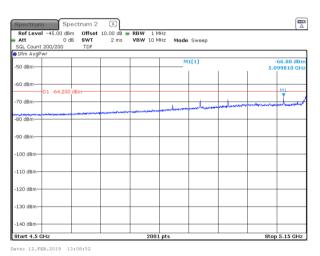
Count 300/300

110 di

Test specification: FCC section 15.407(b), RSS-247 section 6.2.1.2, Conducted out of band Test procedure: KDB 662911; KDB 789033, ANSI C63.10, section 12.7.6 & 12.7.7 Test mode: Compliance **PASS** Verdict: Date(s): 10-Feb-19 Temperature: 25 °C Relative Humidity: 48 % Air Pressure: 1019 hPa Power: 48 VDC Remarks:

Plot 7.12.20 Conducted spurious emission measurements in the range 4.5 - 5.15 GHz CARRIER FREQUENCY 5165 MHz

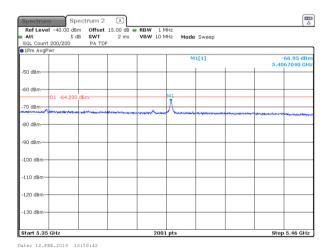
CHANNEL BANDWIDTH 20 MHz Ref Level -20.00 d 1 2 X Offset 10.00 dB SWT 2 ms RBW 1 MHz VBW 10 MHz Mode Sweep 0 dBm 0 dB TDF 1 -44.20



Plot 7.12.21 Conducted spurious emission measurements in the range 5.35 - 5.46 GHz CARRIER FREQUENCY 5165 MHz

Stop 5.15 GHz

CHANNEL BANDWIDTH 20 MHz Mode Sween -110 dBm Date: 12.FEB.2019 13:16:23

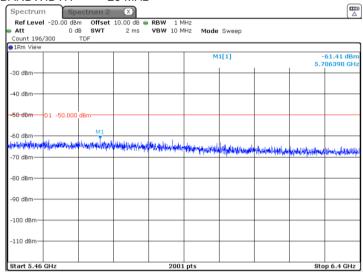




Test specification:	FCC section 15.407(b), RSS-247 section 6.2.1.2, Conducted out of band emissions		
Test procedure:	KDB 662911; KDB 789033, ANSI C63.10, section 12.7.6 & 12.7.7		
Test mode:	Compliance	Vandiat.	PASS
Date(s):	10-Feb-19	- Verdict: PASS	
Temperature: 25 °C	Relative Humidity: 48 %	Air Pressure: 1019 hPa	Power: 48 VDC
Remarks:			

Plot 7.12.22 Conducted spurious emission measurements in the range 5.46 – 6.4 GHz

CARRIER FREQUENCY 5165 MHz CHANNEL BANDWIDTH 20 MHz



Date: 12.FEB.2019 13:15:27



Test specification: FCC section 15.407(b), RSS-247 section 6.2.1.2, Conducted out of band emissions

Test procedure: KDB 662911; KDB 789033, ANSI C63.10, section 12.7.6 & 12.7.7

Test mode: Compliance Verdict: PASS

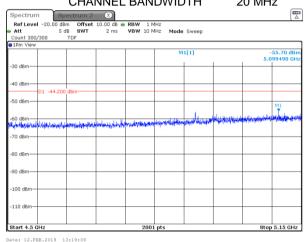
Date(s): 10-Feb-19

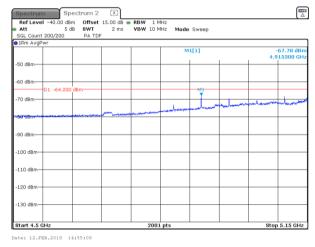
Temperature: 25 °C Relative Humidity: 48 % Air Pressure: 1019 hPa Power: 48 VDC

Remarks:

Plot 7.12.23 Conducted spurious emission measurements in the range 4.5 – 5.15 GHz

CARRIER FREQUENCY CHANNEL BANDWIDTH 5200 MHz 20 MHz





Plot 7.12.24 Conducted spurious emission measurements in the range 5.35 – 5.46 GHz

CARRIER FREQUENCY 5200 MHz

CHANNEL BANDWIDTH

Spectrum

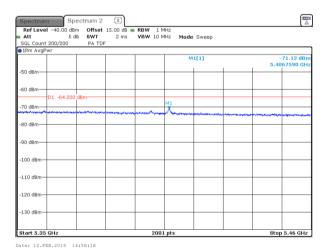
Spectrum

Ref Level -20.00 dbm Offset 15.00 db RBW 1 MHz
Att 0 db SWT 2 ms VBW 10 MHz Mode Sweep

TOF

BPK View

-30 dbm
-40 dbm
-50 dbm
-50 dbm
-90 dbm
-90 dbm
-90 dbm
-110 dbm

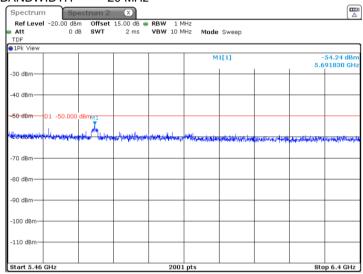




Test specification:	FCC section 15.407(b), RSS-247 section 6.2.1.2, Conducted out of band emissions		
Test procedure:	KDB 662911; KDB 789033, ANSI C63.10, section 12.7.6 & 12.7.7		
Test mode:	Compliance	Vandiat.	PASS
Date(s):	10-Feb-19	- Verdict: PASS	
Temperature: 25 °C	Relative Humidity: 48 %	Air Pressure: 1019 hPa	Power: 48 VDC
Remarks:			

Plot 7.12.25 Conducted spurious emission measurements in the range 5.46 – 6.4 GHz

CARRIER FREQUENCY 5200 MHz
CHANNEL BANDWIDTH 20 MHz



Date: 12.FEB.2019 14:58:49



Test specification: FCC section 15.407(b), RSS-247 section 6.2.1.2, Conducted out of band emissions

Test procedure: KDB 662911; KDB 789033, ANSI C63.10, section 12.7.6 & 12.7.7

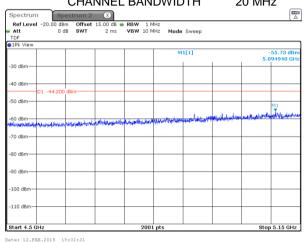
Test mode: Compliance Verdict: PASS

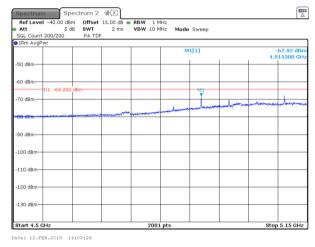
Temperature: 25 °C Relative Humidity: 48 % Air Pressure: 1019 hPa Power: 48 VDC

Remarks:

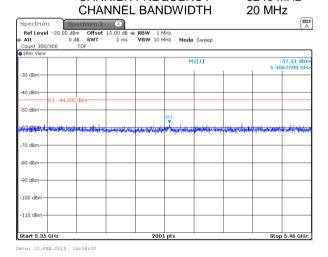
Plot 7.12.26 Conducted spurious emission measurements in the range 4.5 – 5.15 GHz

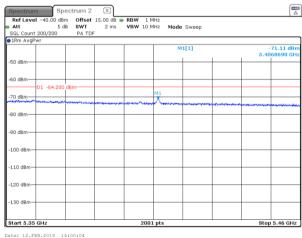
CARRIER FREQUENCY CHANNEL BANDWIDTH 5240 MHz 20 MHz





Plot 7.12.27 Conducted spurious emission measurements in the range 5.35 – 5.46 GHz
CARRIER FREQUENCY 5240 MHz



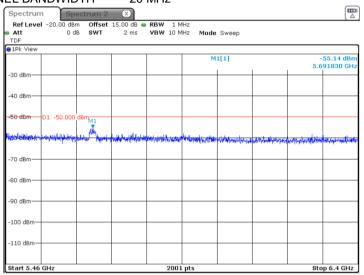




Test specification:	FCC section 15.407(b), RSS-247 section 6.2.1.2, Conducted out of band emissions		
Test procedure:	KDB 662911; KDB 789033, ANSI C63.10, section 12.7.6 & 12.7.7		
Test mode:	Compliance	Verdict:	PASS
Date(s):	10-Feb-19	verdict.	PASS
Temperature: 25 °C	Relative Humidity: 48 %	Air Pressure: 1019 hPa	Power: 48 VDC
Remarks:			

Plot 7.12.28 Conducted spurious emission measurements in the range 5.46 - 6.4 GHz

CARRIER FREQUENCY 5240 MHz
CHANNEL BANDWIDTH 20 MHz



Date: 12.FEB.2019 15:02:29



Test specification:	FCC section 15.407(b)1, RSS-247 section 6.2.4, Field strength of undesirable emissions		
Test procedure:	KDB 662911; KDB 789033, ANSI C63.10, section 12.7.6 & 12.7.7		
Test mode:	Compliance	Vandiat.	PASS
Date(s):	07-Feb-19	Verdict:	PASS
Temperature: 25 °C	Relative Humidity: 46 %	Air Pressure: 1012 hPa	Power: 48 VDC
Remarks:			

7.13 Field strength of undesirable emissions at 5150 – 5250 MHz range

7.13.1 General

This test was performed to measure field strength of spurious emissions from the EUT. Specification test limits are given Table 7.13.1, Table 7.13.2

Table 7.13.1 Unwanted emissions limits below 1 GHz and within restricted bands above 1 GHz

Frequency, MHz	Field strength at 3 m, dB(μV/m)*		
Frequency, MITZ	Peak	Quasi Peak	Average
0.009 - 0.090	148.5 – 128.5	NA	128.5 – 108.5**
0.090 – 0.110	NA	108.5 – 106.8**	NA
0.110 - 0.490	126.8 – 113.8	NA	106.8 - 93.8**
0.490 – 1.705		73.8 – 63.0**	
1.705 – 30.0*		69.5	
30 – 88	NA	40.0	NA NA
88 – 216	INA INA	43.5	INA
216 – 960		46.0	
960 - 1000		54.0	
1000 – 40000	74.0	NA	54.0

^{*-} The limit for 3 m test distance was calculated using the inverse square distance extrapolation factor as follows: $Lim_{S2} = Lim_{S1} + 40 log (S_1/S_2),$

where S_1 and S_2 – standard defined and test distance respectively in meters.

Table 7.13.2 EIRP of undesirable emission limits outside restricted bands (above 1 GHz)

Operating frequency band, GHz	EIRP of spurious, dBm/MHz	Field strength at 3 m, dB(μV/m)
5.150 - 5.250	-27	68.23
5.250 - 5.350	-27	68.23
5.470 - 5.725	-27	68.23
	-27 (below 5.650 GHz and above 5.925 GHz)	68.23
	-27 increasing linearly to 10 (in 5.650 - 5.700 GHz and 5.875 - 5.925 GHz)	68.23 - 105.23*
5.725 – 5.850	10 increasing linearly to 15.6 (in 5.700 - 5.720 GHz and 5.855 - 5.875 GHz)	105.23 - 110.83*
	15.6 increasing linearly to 27 (in 5.720 - 5.725 GHz and 5.850 - 5.855 GHz)	110.83 - 122.23*

^{**-} The limit decreases linearly with the logarithm of frequency.





Test specification:	FCC section 15.407(b)1, RSS-247 section 6.2.4, Field strength of undesirable emissions					
Test procedure:	KDB 662911; KDB 789033, AN	KDB 662911; KDB 789033, ANSI C63.10, section 12.7.6 & 12.7.7				
Test mode:	Compliance	Vordict	PASS			
Date(s):	07-Feb-19	- Verdict: PASS				
Temperature: 25 °C	Relative Humidity: 46 %	Air Pressure: 1012 hPa	Power: 48 VDC			
Remarks:						

Test procedure for spurious emission field strength measurements in 9 kHz to 30 MHz band

- 7.13.1.1 The EUT was set up as shown in Figure 7.13.1 energized and the performance check was conducted.
- **7.13.1.2** The specified frequency range was investigated with antenna connected to spectrum analyzer/ EMI receiver. To find maximum radiation the turntable was rotated 360^o and the measuring antenna was rotated around its vertical axis.
- **7.13.1.3** The worst test results (the lowest margins) were recorded and shown in the associated plots.

Test procedure for spurious emission field strength measurements above 30 MHz

supply

equipment

- **7.13.1.4** The EUT was set up as shown in Figure 7.13.2, Figure 7.13.3, energized and the performance check was conducted.
- **7.13.1.5** The specified frequency range was investigated with antenna connected to spectrum analyzer/ EMI receiver. To find maximum radiation the turntable was rotated 360°, the measuring antenna height was changed from 1 to 4 m, its polarization was switched from vertical to horizontal.
- 7.13.1.6 The worst test results (the lowest margins) were recorded and shown in the associated plots.

Test distance

Loop antenna

Wooden table

Flush mounted turn table

Ground plane

Spectrum analyzer/

EMI receiver

Figure 7.13.1 Setup for spurious emission field strength measurements below 30 MHz



Test specification:	FCC section 15.407(b)1, RSS-247 section 6.2.4, Field strength of undesirable emissions					
Test procedure:	KDB 662911; KDB 789033, AN	KDB 662911; KDB 789033, ANSI C63.10, section 12.7.6 & 12.7.7				
Test mode:	Compliance	Verdict:	PASS			
Date(s):	07-Feb-19	verdict.	PASS			
Temperature: 25 °C	Relative Humidity: 46 %	Air Pressure: 1012 hPa	Power: 48 VDC			
Remarks:						

Figure 7.13.2 Setup for spurious emission field strength measurements from 30 to 1000 MHz

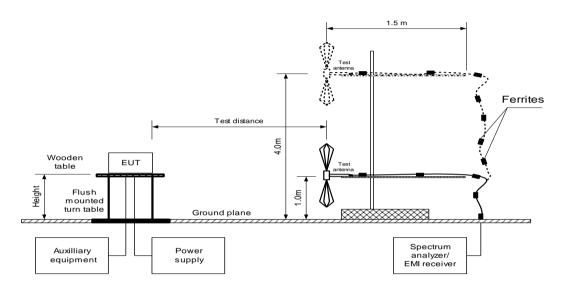
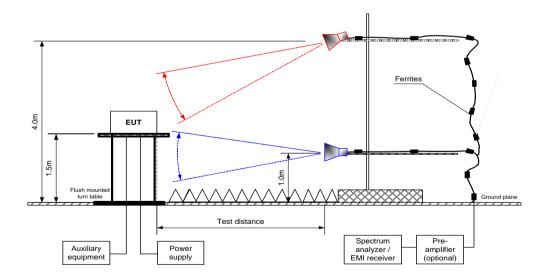


Figure 7.13.3 Setup for spurious emission field strength measurements above1000 MHz





Test specification:	FCC section 15.407(b)1, RSS-247 section 6.2.4, Field strength of undesirable emissions					
Test procedure:	KDB 662911; KDB 789033, ANS	SI C63.10, section 12.7.6 & 12.7	7.7			
Test mode:	Compliance	Vordict	DACC			
Date(s):	07-Feb-19	- Verdict: PASS				
Temperature: 25 °C	Relative Humidity: 46 %	Air Pressure: 1012 hPa	Power: 48 VDC			
Remarks:						

Table 7.13.3 Field strength of spurious emissions below 1 GHz

ASSIGNED FREQUENCY BAND: 5.15 – 5.25 GHz INVESTIGATED FREQUENCY RANGE: 0.009 – 1000 MHz

TEST DISTANCE: 3 m
MODULATION: QPSK
TRANSMITTER OUTPUT POWER: Maximum

RESOLUTION BANDWIDTH: 1 kHz (9 kHz – 150 kHz)

9.0 kHz (150 kHz – 30 MHz) 120 kHz (30 MHz – 1000 MHz) > Resolution bandwidth

VIDEO BANDWIDTH: > Resolution bandwidth
TEST ANTENNA TYPE: Active loop (9 kHz – 30 MHz)
Biconilog (30 MHz – 1000 MHz)

Frequency,	Peak	Qua	Quasi-peak		Antenna	Antenna	Turn-table	
MHz	emission, dB(μV/m)	Measured emission, dB(μV/m)	Limit, dB(µV/m)	Margin, dB*	polarization	height, m	position**, degrees	Verdict
Low, mid, h	igh carrier fre	equency						
32.08537	34.12	27.57	40.00	-12.43	Vertical	104.00	115.00	
38.98023	34.57	30.38	40.00	-9.62	Vertical	100.00	171.00	
101.8665	36.72	33.93	43.50	-9.57	Vertical	100.00	-123.00	Pass
245.7652	45.79	42.62	46.00	-3.38	Vertical	100.00	-33.00	Fa55
374.9810	40.55	37.94	46.00	-8.06	Vertical	132.00	-8.00	
874.9964	42.84	40.71	46.00	-5.29	Horizontal	140.00	-41.00	

^{*-} Margin = Measured emission - specification limit.

Table 7.13.4 Field strength of emissions above 1 GHz outside restricted bands

ASSIGNED FREQUENCY BAND: 5.15 – 5.25 GHz INVESTIGATED FREQUENCY RANGE: 1000 – 40000 MHz

TEST DISTANCE: 3 m

MODULATION: QPSK
TRANSMITTER OUTPUT POWER: Maximum
DETECTOR: USED: Peak
RESOLUTION BANDWIDTH: 1000 kHz

TEST ANTENNA TYPE: Biconilog (30 MHz – 1000 MHz)

Double ridged quide (above 1000 MHz)

Frequency, MHz	Antenna polarization	Antenna height, m	Azimuth, degrees*	Field strength of spurious, dB(µV/m)	Limit, dBµV/m	Margin, dB**	Verdict
Low, mid, high	carrier frequency	/					
	All emissions are more than 20 dB below the limit						

^{*-} EUT front panel refers to 0 degrees position of turntable.

^{**-} EUT front panel refer to 0 degrees position of turntable.

^{**-} Margin = Measured emission - specification limit.



Test specification: FCC section 15.407(b)1, RSS-247 section 6.2.4, Field strength of undesirable emissions Test procedure: KDB 662911; KDB 789033, ANSI C63.10, section 12.7.6 & 12.7.7 Test mode: Compliance **PASS** Verdict: Date(s): 07-Feb-19 Temperature: 25 °C Relative Humidity: 46 % Air Pressure: 1012 hPa Power: 48 VDC Remarks:

Table 7.13.5 Field strength of spurious emissions above 1 GHz within restricted bands

ASSIGNED FREQUENCY: 5.15 - 5.25 GHz INVESTIGATED FREQUENCY RANGE: 1000 - 40000 MHz

TEST DISTANCE: 3 m QPSK MODULATION: **DUTY CYCLE:** 100 % TRANSMITTER OUTPUT POWER: Maximum **DETECTOR USED:** Peak **RESOLUTION BANDWIDTH:** 1000 kHz

TEST ANTENNA TYPE: Double ridged guide

Fraguanay	Antenr	na	Azimuth.	Peak field s	trength(VB	W=3 MHz)	Average	e field stren	gth(VBW=1	kHz)	
Frequency, MHz	Polarization	Haiaht	degrees*	Measured,	Limit, dB(μV/m)	O /	Measured, dB(μV/m)	Calculated, dB(μV/m)	,	Margin, dB***	Verdict
Low, mid, high carrier frequency											
			All emis	sions are m	ore than 20	dB below	the limit				Pass

^{*-} EUT front panel refers to 0 degrees position of turntable.

Reference numbers of test equipment used

HL 0446	HL 0604	HL 3903	HL 4355	HL 4360	HL 4933	HL 4956	HL 5405
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Full description is given in Appendix A.

Table 7.13.6 Restricted bands according to FCC section 15.205

MHz	MHz	MHz	MHz	MHz	GHz
0.09 - 0.11	8.37625 - 8.38675	73 - 74.6	399.9 - 410	2690 - 2900	10.6 - 12.7
0.495 - 0.505	8.41425 - 8.41475	74.8 - 75.2	608 - 614	3260 - 3267	13.25 - 13.4
2.1735 - 2.1905	12.29 - 12.293	108 - 121.94	960 - 1240	3332 - 3339	14.47 - 14.5
4.125 - 4.128	12.51975 - 12.52025	123 - 138	1300 - 1427	3345.8 - 3358	15.35 - 16.2
4.17725 - 4.17775	12.57675 - 12.57725	149.9 - 150.05	1435 - 1626.5	3600 - 4400	17.7 - 21.4
4.20725 - 4.20775	13.36 - 13.41	156.52475 - 156.52525	1645.5 - 1646.5	4500 - 5150	22.01 - 23.12
6.215 - 6.218	16.42 - 16.423	156.7 - 156.9	1660 - 1710	5350 - 5460	23.6 - 24
6.26775 - 6.26825	16.69475 - 16.69525	162.0125 - 167.17	1718.8 - 1722.2	7250 - 7750	31.2 - 31.8
6.31175 - 6.31225	16.80425 - 16.80475	167.72 - 173.2	2200 - 2300	8025 - 8500	36.43 - 36.5
8.291 - 8.294	25.5 - 25.67	240 - 285	2310 - 2390	9000 - 9200	Abovo 20 6
8.362 - 8.366	37.5 - 38.25	322 - 335.4	2483.5 - 2500	9300 - 9500	Above 38.6

Table 7.13.7 Restricted bands according to RSS-Gen

MHz	MHz	MHz	MHz	MHz	GHz
0.09 - 0.11	8.291 - 8.294	16.80425 - 16.80475	399.9 - 410	3260 - 3267	10.6 - 12.7
2.1735 - 2.1905	8.362 - 8.366	25.5 - 25.67	608 - 614	3332 - 3339	13.25 - 13.4
3.020 - 3.026	8.37625 - 8.38675	37.5 - 38.25	960 – 1427	3345.8 - 3358	14.47 – 14.5
4.125 – 4.128	8.41425 - 8.41475	73 - 74.6	1435 – 1626.5	3500 – 4400	15.35 – 16.2
4.17725 – 4.17775	12.29 – 12.293	74.8 - 75.2	1645.5 – 1646.5	4500 – 5150	17.7 – 21.4
4.20725 - 4.20775	12.51975 – 12.52025	108 – 138	1660 - 1710	5350 - 5460	22.01 – 23.12
5.677 - 5.683	12.57675 – 12.57725	156.52475 – 156.52525	1718.8 - 1722.2	7250 - 7750	23.6 - 24
6.215 - 6.218	13.36 – 13.41	156.7 - 156.9	2200 - 2300	8025 - 8500	31.2 - 31.8
6.26775 - 6.26825	16.42 - 16.423	240 - 285	2310 - 2390	9000 - 9200	36.43 - 36.5
6.31175 - 6.31225	16.69475 - 16.69525	322 - 335.4	2655 - 2900	9300 - 9500	Above 38.6

^{** -} Margin, dB = Measured, dB(μ V/m) - Limit, dB(μ V/m)

^{*** -} Margin, dB = Calculated, dB(μ V/m) - Limit, dB(μ V/m)





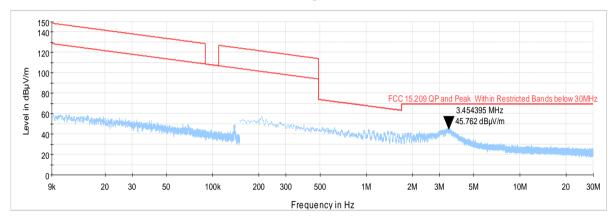
Test specification:	FCC section 15.407(b)1, RSS-247 section 6.2.4, Field strength of undesirable emissions					
Test procedure:	KDB 662911; KDB 789033, ANS	SI C63.10, section 12.7.6 & 12.7	7.7			
Test mode:	Compliance	Vordict	DACC			
Date(s):	07-Feb-19	- Verdict: PASS				
Temperature: 25 °C	Relative Humidity: 46 %	Air Pressure: 1012 hPa	Power: 48 VDC			
Remarks:						

Plot 7.13.1 Radiated emission measurements from 9 kHz to 30 MHz at the low carrier frequency

TEST SITE: Semi anechoic chamber

TEST DISTANCE: 3 m

ANTENNA POLARIZATION: Front 0 degree

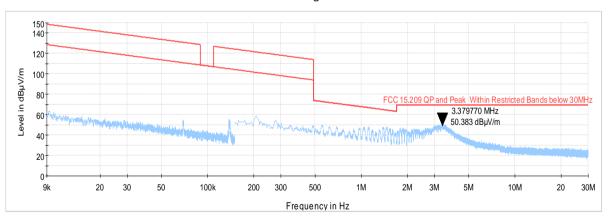


Plot 7.13.2 Radiated emission measurements from 9 kHz to 30 MHz at the low carrier frequency

TEST SITE: Semi anechoic chamber

TEST DISTANCE: 3 m

ANTENNA POLARIZATION: Front 90 degree







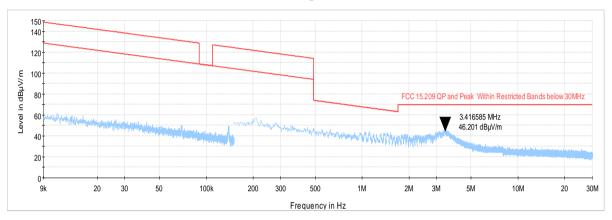
Test specification:	FCC section 15.407(b)1, RSS-247 section 6.2.4, Field strength of undesirable emissions				
Test procedure:	KDB 662911; KDB 789033, ANS	SI C63.10, section 12.7.6 & 12.7	7.7		
Test mode:	Compliance	Verdict:	PASS		
Date(s):	07-Feb-19	verdict: PASS			
Temperature: 25 °C	Relative Humidity: 46 %	Air Pressure: 1012 hPa	Power: 48 VDC		
Remarks:					

Plot 7.13.3 Radiated emission measurements from 9 kHz to 30 MHz at the mid carrier frequency

TEST SITE: Semi anechoic chamber

TEST DISTANCE: 3 m

ANTENNA POLARIZATION: Front 0 degree

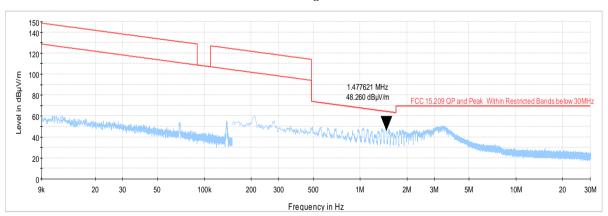


Plot 7.13.4 Radiated emission measurements from 9 kHz to 30 MHz at the mid carrier frequency

TEST SITE: Semi anechoic chamber

TEST DISTANCE: 3 m

ANTENNA POLARIZATION: Front 90 degree







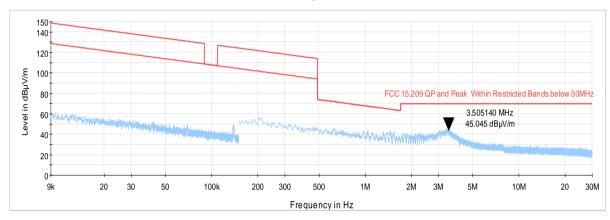
Test specification:	FCC section 15.407(b)1, RSS-247 section 6.2.4, Field strength of undesirable emissions					
Test procedure:	KDB 662911; KDB 789033, AN	KDB 662911; KDB 789033, ANSI C63.10, section 12.7.6 & 12.7.7				
Test mode:	Compliance	Vordict	PASS			
Date(s):	07-Feb-19	- Verdict: PASS				
Temperature: 25 °C	Relative Humidity: 46 %	Air Pressure: 1012 hPa	Power: 48 VDC			
Remarks:						

Plot 7.13.5 Radiated emission measurements from 9 kHz to 30 MHz at the high carrier frequency

TEST SITE: Semi anechoic chamber

TEST DISTANCE: 3 m

ANTENNA POLARIZATION: Front 0 degree

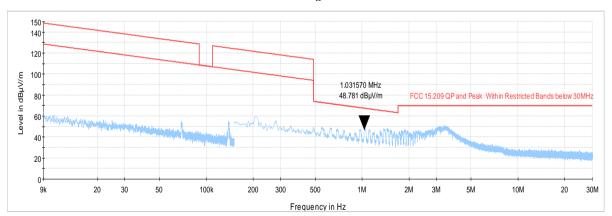


Plot 7.13.6 Radiated emission measurements from 9 kHz to 30 MHz at the high carrier frequency

TEST SITE: Semi anechoic chamber

TEST DISTANCE: 3 m

ANTENNA POLARIZATION: Front 90 degree







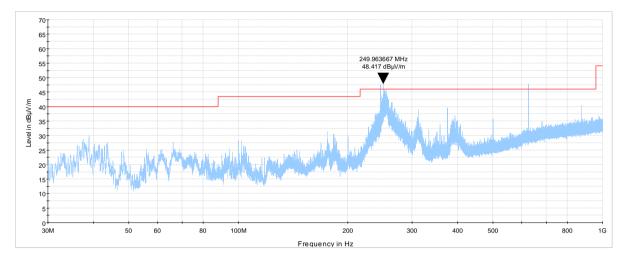
Test specification:	FCC section 15.407(b)1, RSS-247 section 6.2.4, Field strength of undesirable emissions		
Test procedure:	KDB 662911; KDB 789033, ANSI C63.10, section 12.7.6 & 12.7.7		
Test mode:	Compliance	Verdict:	PASS
Date(s):	07-Feb-19		
Temperature: 25 °C	Relative Humidity: 46 %	Air Pressure: 1012 hPa	Power: 48 VDC
Remarks:			

Plot 7.13.7 Radiated emission measurements from 30 MHz to 1000 MHz at the low carrier frequency

TEST SITE: Semi Anechoic chamber

TEST DISTANCE: 3 m

ANTENNA POLARIZATION: Vertical and Horizontal

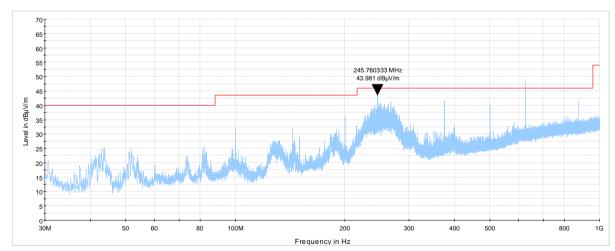


Plot 7.13.8 Radiated emission measurements from 30 MHz to 1000 MHz at the mid carrier frequency

TEST SITE: Semi Anechoic chamber

TEST DISTANCE: 3 m

ANTENNA POLARIZATION: Vertical and Horizontal





Test specification:	FCC section 15.407(b)1, RSS-247 section 6.2.4, Field strength of undesirable emissions		
Test procedure:	KDB 662911; KDB 789033, ANSI C63.10, section 12.7.6 & 12.7.7		
Test mode:	Compliance	Verdict:	PASS
Date(s):	07-Feb-19		
Temperature: 25 °C	Relative Humidity: 46 %	Air Pressure: 1012 hPa	Power: 48 VDC
Remarks:			

Plot 7.13.9 Radiated emission measurements from 30 MHz to 1000 MHz at the high carrier frequency

TEST SITE: Semi Anechoic chamber

TEST DISTANCE: 3 m

ANTENNA POLARIZATION: Vertical and Horizontal

